CLAIMS

1. A CD player, comprising:

a CD drive, which receives a CD and reads compressed digital audio data recorded thereon; and

an integrated circuit chip, which decompresses the compressed data and produces a non-compressed audio output.

2. A CD player according to claim 1, wherein the data are compressed by MPEG compression.

3. A CD player according to claim 2, wherein the data are compressed by MPEG Layer-3 compression.

2A. A CD player according to claim 1, wherein the data are compressed at least 4-fold.

3B. A CD player according to claim 2A, wherein the data are compressed at least 8-fold.

4C. A CD player according to claim 3B, wherein the data are compressed approximately 12-fold.

5D. A CD player according to claim 1, wherein the chip includes firmware for decompressing the data.

6E. A CD player according to claim 1, wherein the chip comprises a custom integrated circuit chip.

7F. A CD player according to claim 1, wherein the chip does not comprise a general purpose processor.

8G. A CD player according to claim 1, wherein the CD player comprises a mobile personal audio player.

99H. A CD player according to claim 8G, wherein the CD player is installed in a vehicle.

12. A CD recording system, comprising:

a read drive, which receives and reads a first CD having audio data recorded thereon;

compression circuitry, which receives and compresses the audio data from the read drive; and

a write drive, which receives the compressed data and records the compressed data on a second, recordable CD.

13. A system according to claim 12, wherein the circuitry compresses the data by MPEG compression.

14. A system according to claim 13, wherein the circuitry compresses the data by MPEG Layer-3 compression.

15. A CD system according to claim 12, wherein the circuitry includes firmware for compressing the data.

16. A CD system according to claim 12, wherein the circuitry compresses the data at least 4-fold.

17. A CD system according to claim 16, wherein the circuitry compresses the data at least 8-fold.

18. A CD system according to claim 17, wherein the circuitry compresses the data approximately 12-fold.

19. A method for playing a long-playing audio CD, comprising:

reading compressed digital audio data from the CD; and

decompressing the data using a custom integrated circuit chip; and

converting the decompressed data to analog form.

20. A method according to claim 19, wherein decompressing the data comprises decompressing by MPEG decoding.

21. A method according to claim 20 wherein decompressing the data comprises decompressing by MPEG Layer-3 decoding.

22. A method according to claim 19, wherein decompressing the data comprises decompressing by at least 4-fold.

19 ~~23~~. A method according to claim ~~22~~ 18, wherein decompressing the data comprises decompressing by at least 8-fold.

20 ~~24~~. A method according to claim ~~23~~ 19, wherein decompressing the data comprises decompressing by approximately 12-fold.

21 ~~25~~. A method according to claim ~~19~~ 15, wherein reading the compressed data comprises playing the CD in a mobile personal audio player.

22 ~~26~~. A method according to claim ~~19~~ 15, wherein reading the compressed data comprises playing the CD in a CD player installed in a vehicle.

27. A method for producing a long-playing audio CD, comprising:

reading digital audio data from a prerecorded CD;

compressing the data using MPEG compression; and

recording the compressed data on the long-playing CD.

28. A method according to claim 27, wherein compressing the data comprises compressing by MPEG Layer-3 compression.

24 ~~29~~. A method according to claim ~~27~~ 23, wherein compressing the data comprises compressing by at least 4-fold.

25 ~~30~~. A method according to claim ~~29~~ 24, wherein compressing the data comprises compressing by at least 8-fold.

26 ~~31~~. A method according to claim ~~30~~ 25, wherein compressing the data comprises compressing by approximately 12-fold.

27 ~~32~~. A method according to claim ~~27~~ 23, wherein reading the data comprises reading data from a plurality of prerecorded CDs.

28 ~~33~~. A method according to claim ~~32~~ 27, wherein reading the data comprises inserting each of the plurality of CDs in

sequence into a read drive, in order to read data therefrom.

~~34~~ 29. A method according to claim ~~27~~ 23, wherein recording the data comprises recording data on the long-playing CD in an order that is different from the order of the data on the prerecorded CD.